PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

24-Jun-2010

Company: 111324

Room Area ID: Reference #:



 Sales Order #:
 C002697

 CCC Panel #:
 P67983

 Date In:
 04-Jun-2010

 Date Out:
 18-Jun-2010

Days In Service: 14

CCC Panel # P67983

ISA Class G2
Moderate

Copper Corrosion 488 Å/30 Days

Silver Corrosion 384 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67983

The electrolytic reduction analysis on Corrosion Classification Coupon #P67983 shows the presence of moderate concentrations of contaminants and high/variable humidity in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. The effects of corrosion are measurable and may be a factor in determining equipment reliability.

Your local representative for additional information and assistance is:

Environmental Health and Eng

117 Fourth Avenue, Needham MA 02494, USA

tminegishi@eheinc.com

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922 Email: purafil@purafil.com / Internet: http://www.purafil.com

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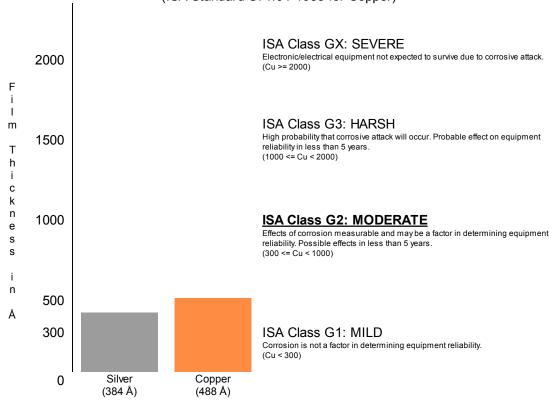
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PURAFIL CCC # P67983 Analysis Results

Corrosion Film Composition Projections				Gold Coupon - Magnified 20x
	30 Days	1 Year	<u>5 Year</u>	Magnified 20X
Copper Films Cu ₂ S	222 Å	451 Å	771 Å	
Cu ₂ O	131 Å	266 Å	454 Å	
Unknowns	135 Å	273 Å	467 Å	
Totals	488 Å	990 Å	1692 Å	
Silver Films				
AgCI	37 Å	454 Å	2271 Å	
Ag ₂ S	347 Å	4222 Å	21108 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	384 Å	4676 Å	23379 Å	
Gold Pore Corrosion: Note: 1000 Å = 0.1 micror	1			

Equipment Reliability Correlation

(ISA Standard S71.04-1985 for Copper)



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